



# NAVAL AMMUNITION



**MUNITIONS INDIA LIMITED**  
(A Government of India Enterprise)



## CARTG 30MM AK-630 HEI/HET/PRACTICE

The Indigenous 30mm ammunition for AK 230 gun has the following three variants:

- Cartridge 30 mm HE Rounds with HE Shell and Nose fuze  
DASD (Direct Action and Self - destruction)
- Cartridge 30 mm PRACTICE Round with inert shell and PRF  
(Plug Representing Fuze)
- Cartridge 30 mm TRACER Round with tracer shell and ballistic cap

### SPECIFICATIONS

Gun Mount	AK 230
Caliber	30mm
Muzzle Velocity	1055 m/s
Rate of Fire	1000 / rounds / min / barrel
Weight of Cartridge	1030 gms
Length	305 mm (nominal)
Range	4 - 5 km
Target	Air borne target (It can also be used against surface targets)



## CARTRIDGE OF 40MM L/60 NAVAL

- It is anti aircraft ammunition mounted on Bofors or similar automatic guns.

### SPECIFICATIONS

Total length of ammunition	447 mm
Total mass of ammunition	2.1 kg
Mass of Projectile	0.9 kg
Propellant (ACM)	0.4 kg
Muzzle velocity	869 + 10 m/sec
Rate of fire	12 rounds min
Maximum range @45"	9830 meters
Armor class 'B' Penetration from 5500 meters	11 mm



## CARTG 76.2MM NAVAL HE AND PRACTICE

This Ammunition is designed to fight against enemy Aircraft / ships from Warship. It is made in two versions. Cartg. 76.2 mm HE Fuzed with variable time fuze for combat purpose and Cartg. 76.2 mm Practice used for practice purpose.

### SPECIFICATIONS

Total length of Ammunition	815.5 mm
Total Mass of Ammunition	15.30 kgs (Approx.)
Weight of Projectile (Filled) and with PRF	5.9 kgs (Approx.) $\pm$ 0.045 kg
Propellant	2P/H 109
Muzzle Velocity	994.5 m/s
Rate of firing	90 Rds/min
Maximum Range	6900 m (approx.)



## CARTG 76.2MM NAVAL HEPF

### SPECIFICATIONS

Total Length of Ammunition	815.5 mm
Total Mass of Ammunition	13.10 kgs to 13.40 kgs (approx)
Weight of Projectile with fuze	5.9 kgs $\pm$ 0.045 kgs
Type of fuze	Radio proximity or Direct Action
Muzzle velocity	980 m / sec
Pressure	4250 $\pm$ 80 Kg/cm <sup>2</sup>
Prop. Of charge mass	2.895 kgs
Volume of Cartg case	3800 C.C.
Wt of Cartg case	3.580 kgs
<b>Rate of Firing</b>	
- AK 176	90 rds / min
- AK 726	180 rds / min
Max Range	15.5 km



## CARTG. 76/62 SRGM

### SPECIFICATIONS

Mass of Round	12.5 Kg (nominal)
Length of Round	907mm
Muzzle velocity	905+/- 5 M/sec, Sd Not More Than 3 M/sec
Pressure	3792 Kg/sq Cm [305 Mpa (mean)]
Max. Pressure At 60°C	3975 Kg/sq Cm
Range	16000m
Dispersion Over 500m At +21°C	< 1m Vertically & 1m Horizontally

### Components

Cartg Case	70/30 Brass
Propellant	Single Base (Triple Base Propellant Na2pm is Being Used For TP & TPT For The Initial Indent )



## KAVACH/ CHAFF ROCKETS

- ◆ Used as soft kill missile counter measure or defence system
- ◆ Designed for dispensing Chaff payload at designated ranges

### SPECIFICATIONS

Parametere	KAVACH ROCKET		
	1	2	3
	SRCR	MRCR	LRCR
Caliber	98.00mm	105.00mm	105.00mm
Muzzle velocity	80m/s	450m/s	450m/s
Range	150m	2000m	1000m



SRCR

MRCR

LRCR

## RGB 60 ROCKET

- ◆ Rocket is used against under water target
- ◆ Fuze YDB-60 is used in Anti-Submarine Rocket RGB-60.
- ◆ Time Mode:- by timer mechanism at preset depth
- ◆ Direct Action mode : On striking the target
- ◆ Sympathetic mode: activated by shock waves due to explosion of adjacent anti-submarine Rocket.

### SPECIFICATIONS

Diameter	0.212 m
Length	1830 mm
Explosive	Torpex 4 -A
Range	350 m to 5500 m
Fuze	YDB 60
Motor	2 stage
Rate of sinking	11.5 m/s
Launcher	RBO - 6000 (RussianSystem) and Indian indigenous Rocket
Length of Fuze	361mm
Max. Diameter of Fuze	135mm
Weight of Fuze	6.5 kg
Sinking Rate of Rocket RGB-60	11.6 m/s



## MINE MAINDEKA

### SPECIFICATIONS

Diameter	310 mm,
Height	135 mm
Weight	6.00 kgs
Explosive weight	810 gms
Type of explosive	RDX/TNT 60:40 TYPE B
Arming Delay	
- Mechanical	Min. one min. (not to be set )
- Electronic	Max. 9999 min. in steps of one minute.
Max. Operating Depth	50 meters.
Adhesivebility	Upto 8 knots
Shelf life	15 years
Buoyance in water	100 to 350 gms (Negative)



#### Damage Potential :

1. Hole diameter 240 mm on 22 mm thick MS plate.
2. Hole of 230 mm minimum (20mm thick)

#### Safety Devices :

Safety Pin (Arming pin), shortening of Detonators, Mechanical Arming Delay, Electronic Arming Delay.

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## **MUNITIONS INDIA LIMITED**

**(A Government of India Enterprise)**

Corporate Office : 2nd Floor Nyati Unitree, Nagar Road, Yerwada, Pune - 411006.

✉ mil-pune@munitionsindia.in exports@munitionsindia.in

🌐 Website : <https://munitionsindia.co.in>

🐦 @indiamunitions 📺 munitions india limited

☎ +91 - 20 - 67080400 / 67080414 / 67080440



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